

**ENGINE INSTRUMENTS:**

1. Engine Gage Unit:
  - a. Oil Temperature:
 

Green Arc (Normal)	75° F to 240° F
Red Radial (Maximum)	240° F
  - b. Oil Pressure:
 

Red Radial (Minimum)	10 PSI
Green Arc (Normal)	30 PSI to 60 PSI
Red Radial (Maximum)	100 PSI
  - c. Cylinder Head Temperature:
 

Green Arc (Normal)	200° F to 460° F
Red Radial (Maximum)	460° F
2. Manifold Pressure:
 

Green Arc (Normal)	15 in. Hg. to 29.5 in. Hg.
Red Radial (Maximum)	34.5 in. Hg.
3. Tachometer
 

Green Arc (Normal)	2100 RPM to 2450 RPM
Red Radial (Maximum)	2700 RPM
4. Fuel Pressure:
 

Red Radial (Minimum)	3.0 PSI (0 lb./hr.)
Green Arc (Normal)	4.0 PSI to 16.8 PSI (36.0 to 187.0 lb./hr.)
Red Radial (Maximum)	17.3 PSI (191.0 lb./hr.)

**AIRSPEED LIMITATIONS:**

Never Exceed (Red Radial)	266 MPH CAS
Caution Range (Yellow Arc)	230 MPH CAS to 266 MPH CAS
Normal Operating Range (Green Arc)	95 MPH CAS to 230 MPH CAS
Flap Operating Range (White Arc)	80 MPH CAS to 160 MPH CAS
Maximum Flap Extension Speed	15° Flaps - 180 MPH CAS
	15° to 45° Flaps - 160 MPH CAS
Best Single Engine Rate of Climb (Blue Radial)	118 MPH CAS
Maximum Gear Extension Speed	160 MPH CAS
Maximum Gear Down Speed	160 MPH CAS
Maximum Design Maneuvering Speed	180 MPH CAS
Design Cruising Speed	230 MPH CAS
Minimum Single Engine Control Speed (Red Radial)	95 MPH CAS

**FLIGHT LOAD FACTORS:** At design gross weight of 6300 pounds:

Maneuver:	Flap 0°	Positive	+3.6 G
		Negative	-1.44 G
	Flaps 45°	Positive	+2.00 G

**MAXIMUM WEIGHT:** 6300 Pounds (Takeoff)  
6200 Pounds (Landing)

**CENTER OF GRAVITY LIMITS (GEAR EXTENDED):**

Aft Limit:	158.49 in. Aft of Datum (31.25% MAC) at 5900 pounds or less
	158.09 in. Aft of Datum (30.6% MAC) at 6300 pounds
Forward Limit:	150.77 in. Aft of Datum (18.8% MAC) at 6300 pounds
	147.49 in. Aft of Datum (13.5% MAC) at 5000 pounds

See Weight and Balance Section for loading schedule.

**PLACARDS:**

1. On Emergency Escape Hatch Release Cover:  
"EMERGENCY WINDOW RELEASE - PULL"
2. On Emergency Window Glass:  
"EMERGENCY EXIT - PULL HANDLE - PUSH WINDOW OUT."
3. On Left Engine Fuel Selector Valve:
  - a. "50 GAL. - LEFT MAIN" (Green sector)
  - b. "50 GAL. - RIGHT MAIN" (Yellow sector)
  - c. "LEFT ENGINE - OFF" (Red sector)
  - d. If auxiliary tanks are installed,  
"20 GAL. - LEFT AUX." (Yellow and green sector)
  - e. "USE MAIN TANK FOR TAKEOFF, LANDING, EMERGENCY,  
AND FIRST 60 MINUTES OF FLIGHT."
  - f. If optional wing locker transfer tanks are installed, change  
item "e" to:  
"USE MAIN TANK FOR TAKEOFF LANDING AND EMERGENCY."
4. On Right Engine Fuel Selector Valve:
  - a. "50 GAL. - RIGHT MAIN" (Green sector)
  - b. "50 GAL. - LEFT MAIN" (Yellow sector)
  - c. "RIGHT ENGINE - OFF" (Red sector)
  - d. If auxiliary tanks are installed,  
"20 GAL. - RIGHT AUX." (Yellow and green sector)
  - e. "USE MAIN TANK FOR TAKEOFF LANDING, EMERGENCY AND  
FIRST 60 MINUTES OF FLIGHT."
  - f. If optional wing locker transfer tanks are installed, change  
item "e" to:  
"USE MAIN TANK FOR TAKEOFF, LANDING AND EMERGENCY."

Cessna  
MODEL **401B**

5. On Floor Between Fuel Selectors:
  - a. "TAKEOFF AND LAND WITH AUXILIARY FUEL PUMPS ON. "
  - b. "USE FULL RICH MIXTURE AND AUXILIARY FUEL PUMPS ON "LOW" WHEN SWITCHING TANKS. "
  - c. "100/130 GRADE AVIATION FUEL, MINIMUM. "
  - d. If optional wing locker tanks are installed:
    - (1) "OPERATE ON MAIN TANKS UNTIL FUEL QUANTITY IS LESS THAN 180 LBS. PER TANK. "
    - (2) "TRANSFER WING LOCKER FUEL WHILE OPERATING ON MAIN TANKS IN STRAIGHT AND LEVEL FLIGHT"
    - (3) "TURN TRANSFER PUMPS OFF WHEN LIGHTS ILLUMINATE. "
    - (4) "USE FUEL CROSSFEED SYSTEM TO BALANCE MAIN FUEL QUANTITIES IF ONE WING LOCKER TANK DOES NOT TRANSFER OR IF A SINGLE WING LOCKER TANK IS INSTALLED. "
    - (5) "SWITCH TO AUXILIARY TANKS WHEN MAIN FUEL IS AGAIN LESS THAN 180 LBS. PER TANK. "
6. On Left Forward Side Panel:
  - a. "OPERATIONAL LIMITS"
    - (1) "THIS AIRPLANE MUST BE OPERATED AS A NORMAL CATEGORY AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN THE FORM OF PLACARDS, MARKINGS, AND MANUALS. "
    - (2)
    - (3) "MINIMUM SINGLE ENGINE CONTROL SPEED: 95 MPH (CAS)"
    - (4) "MAXIMUM GEAR EXTENSION SPEED: 160 MPH (CAS)"
    - (5) "MAXIMUM FLAP EXTENSION SPEED -  
15° FLAP: 180 MPH (CAS)"  
"MAXIMUM FLAP EXTENSION SPEED -  
45° FLAP: 160 MPH (CAS)"
    - (6) "MAXIMUM MANEUVERING SPEED: 180 MPH (CAS)"
    - (7) "THE STALL WARNING SYSTEM IS INOPERATIVE WHEN THE BATTERY SWITCH IS IN THE "OFF" POSITION. "
7. On Floor Between Fuel Selectors:
  - a. "TO EXTEND LANDING GEAR MANUALLY:
    1. PLACE GEAR SWITCH IN NEUTRAL,
    2. PULL GEAR CIRCUIT BREAKER,  
(Serial No's 401B0001 thru 401B0049)  
OR
    2. PULL GEAR MOTOR CIRCUIT BREAKER,  
(Serial No's 401B0050 and on)
    3. PULL OUT CRANK TO ENGAGE,
    4. TURN CLOCKWISE TO EXTEND.
    5. PUSH BUTTON AND STOW CRANK. "